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(54) Title: AGENTS AND COMPOSITIONS AND METHODS FOR DIAGNOSTIC AND/OR TREATING OR PREVENTING PLAQUE FORMING DISEASES

(57) Abstract: A method of immunizing against plaque forming diseases using display technology is provided. The method utilizes novel agents, or pharmaceutical compositions for vaccination against plaque forming diseases which rely upon presentation of an antigen or epitope on a display vehicle. The method further includes agents, or pharmaceutical compositions for vaccination against plaque forming diseases, which rely upon presentation of an antibody, or an active portion thereof, on a display vehicle. Whether antigens or antibodies are employed, disaggregation of plaques results from the immunization.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL00/00518

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :Please See Extra Sheet.
US CL :424/93.1; 435/7.1, 235.1, 455; 530/387.1
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/93.1; 435/7.1, 235.1, 455; 530/387.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST, CAPLUS, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,811,093 A (MERRILL et al.) 22 September 1998, col. 2, lines 57-60; col. 4, line 6 to col. 5, line 4; and col. 4, lines 17-25.	1-13, 53-57 and 59-66
Y	DELMASTRO, P. et al. Immunogenicity of Filamentous Phage Displaying Peptide Mimotopes After Oral Administration. Vaccine. 1997, Vol. 15, No. 11, pp. 1276-1285, especially pages 1279-1284.	1-57, 59-70 and 72-114
Y	MOTTI, C. et al. Recognition by Human Sera and Immunogenicity of HBsAg Minitopes Selected from an M13 Phage Display Library. Gene. 1994, Vol. 146, pp. 191-198, see especially pages 192-197.	1-57, 59-70 and 72-114

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 MAY 2001	28 JUN 2001

Name and mailing address of the ISA/US	Authorized officer
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INTERNATIONAL SEARCH REPORT

International application No.
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	HANAN, E. et al. Inhibitory Effect of Monoclonla Antibodies on Alzheimer's β-Amyloid Peptide Aggregation. Amyloid: Intnational Journal of Experimental Clinical Investigation. 1996, Vol. 3, pages 130-133, see pages 131-132	1-57,59-70 and 72-114
Y	SOLOMON, B. et al. Dissagregation of Alzheimer β-Amyloid by Site-Directed mAb. Proceedings National Academy of Science (USA). April 1997, Vol. 94, pages 4109-4112, see especially 4110-4112.	1-57,59-70 and 72-114
Y	SOLOMON, B. et al. Monoclonal Antibodies Inhibit In Vitro Fibrillar Aggregation of the Alzheimer β-Amyloid Peptide. Proceedings of the National Academy of Science (USA). January 1996, Vol. 93, pages 452-455, see especially pages 453 and 454.	1-57,59-70 and 72-114
X --- Y	FRENKEL, D. et al. N-Terminal EFRH Sequence of Alzheimer's β-Amyloid Peptide Represents the Epitope of its Anti-Aggregating Antibodies. Journal of Neuroimmunology. 1998, Vol. 88, pages 85-90, see especially pages 87-90.	67-70 and 72-114 ---------- 1-57 and 59-66
Y	SCHENK, D. et al. Immunization with Amyloid-βAttenutates Alheimer-Disease-Like Pathology in the PAPP Mouse. Nature. 08 July 1999, Vol. 400, pages 173-177, see especially pages 173-177.	1-13, 53-57 and 59-66
X	SOMERVILLE, R. A. et al. Immunodetection of PrPsc in Spleens of Some Scrapie-Infected Sheep but not BSE-Infected Cows. Journal of General Virology. 1997, Vol. 78, pages 2389-2396, see especially pages 2391-2394.	116,118, 119 and 121

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